## **AMENDMENT**

Please amend the application without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents.

## In the Claims

- 1-2. (Cancelled)
- 3. (Allowed) An isolated antibacterial protein having the amino acid sequence of SEQ ID NO: 3.
  - 4. (Cancelled)
- 5. (Currently amended) [[A]] The protein as claimed in claim 3, wherein the protein any one of claims 1-4 which is bacteriocidal.
- 6. (Currently amended) [[A]] <u>The</u> protein as claimed in claim 5, wherein the protein which is bacteriocidal with respect to *Streptococcus pyogenes*.
- 7. (Currently amended) An antibacterial composition comprising the which includes a protein as claimed in claim 3 any one of claims 1 to 6 or an organism which can expresses [[a]] the protein as claimed in claim 3 any one of claims 1 to 6.
  - 8. (Currently amended) A therapeutic formulation which comprises:
    - (i) [[a]] the protein as claimed in claim 3 any one of claims 1-6; or
    - (ii) an organism which ean expresses [[a]] the protein as claimed in claim 3 any one of claims 1 to 6,

in combination with a diluent, carrier and/or excipient.

- 9-10. (Cancelled)
- 11. (Currently amended) [[A]]<u>The</u> therapeutic formulation as claimed in <u>claim 8</u>, any one of claims 8-10-which is an orally administrable medicament.
- 12. (Currently amended) A medicament The therapeutic formulation as claimed in claim 11, wherein the medicament which is a syrup, mouthwash, gargle, toothpaste or mouth spray.
- 13. (Currently amended) A medicament The therapeutic formulation as claimed in claim 11, wherein the medicament which is in a unit dosage form.

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- 14. (Currently amended) A medicament The therapeutic formulation as claimed in claim 12, wherein the medicament which is a lozenge or capsule containing a unit dose of an organism which can express a protein as claimed in any one of claims 1-6.
- 15. (Currently amended) [[A]]<u>The</u> therapeutic formulation as claimed in <u>claim 8</u> any one of claims 8-11 in which said protein or <u>organism</u> is included in a food or drink.
- 16. (Currently amended) [[A]]The therapeutic formulation as claimed in claim 15 in which said food or drink is a dairy product based food or drink.
- 17. (Currently amended) [[A]]The therapeutic formulation as claimed in claim 16 in which said protein or organism is included in milk powder, milk biscuits, milk, yoghurt or cheese.
- 18. (Currently amended) [[A]]<u>The therapeutic</u> formulation as claimed in claim 16 in which said protein or organism is included in a flavoured milk.
- 19. (Currently amended) [[A]]<u>The</u> therapeutic formulation as claimed in <u>claim 8</u>, any one of claims 8-10 in which said protein or organism is included in a confectionery.
- 20. (Currently amended) [[A]]The therapeutic formulation as claimed in claim 19 in which said confectionery is a chewing gum.
- 21. (Currently amended) [[A]]<u>The</u> therapeutic formulation as claimed in <u>claim 8</u>, any one of claims 9-20 which further comprises one or more secondary antibacterial agents.
- 22. (Currently amended) [[A]]The therapeutic formulation as claimed in claim 21 in which said secondary antibacterial agent(s) are selected from bacteriocin-like inhibitory substance(s) (BLIS).
- 23. (Currently amended) [[A]]<u>The</u> therapeutic formulation as claimed in claim 20 which includes one or <u>more both</u> of Salivaricin A, [[an]] <u>a microorganism</u> which <u>ean</u> express<u>es</u> Salivaricin A, the <u>an</u> antibacterial protein which has the amino acid sequence of SEQ ID NO:5, or [[an]] <u>microorganism</u> which <u>ean</u> express<u>es</u> the antibacterial protein which has the amino acid sequence of SEQ ID NO:5.

24-26. (Cancelled)

27. (Currently amended) An A microorganism, in substantially pure form, comprising which includes a polynucleotide which:

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- a) \_\_\_\_encodes [[a]] the protein as claimed in claim 3 any one of claims 1-6;
- b) comprises the coding sequence of SEQ ID NO:2; or

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- e) encodes a protein as claimed in any one of claims 1-6, comprising the DNA sequence which encodes an antibacterial protein as claimed in claim 1, which is part of the genome of S. salivarius strain K12, on deposit at Deutsche Sammlung von Mikroorganismen Und Zellkulturen GmbH, Braunschweig, Germany, accession number DSM 13084.
- 28. (Currently amended) [[An]] <u>The</u> organism as claimed in claim 27 in which said polynucleotide is heterologous.
- 29. (Currently amended) [[An]] <u>The</u> organism as claimed in claim 27 which is a *S. salivarius* organism.
- 30. (Original) A biologically pure culture of *S. salivarius* strain K12 on deposit at Deutsche Sammlung von Mikroorganismen Und Zellkulturen GmbH, Braunschweig, Germany, accession number DSM 13084.
- 31. (Original) A biologically pure culture of *S. salivarius* strain K30 on deposit at Deutsche Sammlung von Mikroorganismen Und Zellkulturen GmbH, Braunschweig, Germany, accession number DSM 13085.
- 32. (Original) A therapeutic formulation which includes *S. salivarius* strain K12 or *S. salivarius* strain K30 as identified in claim 30 or claim 31.
- 33. (Currently amended) A method of treating an individual to at least inhibit growth of harmful streptococcal bacteria in the upper respiratory tract, comprising the step of administering an effective amount of a protein as claimed in claim 3 any one of claims 1-6 orally to said individual.

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34-46. (Cancelled)

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